Abstract:

Within a process for recycling of PET-material and/or objects of PET, the PET-material to be processed is heated and dried in the course a pre-treatment step and simultaneously is crystallized at elevated temperature. This pre-treatment step is followed by a main-treatment step under vacuum. In this main-treatment step, the processed material is again dried and crystallized at a temperature that is higher than the temperature of the pre-treatment step. Preferably, also in the main-treatment step no plasticizing of the material takes place, the plasticizing or, respectively, melting of the material takes place only after the main-processing step.

An apparatus for performing this process comprises a main-processing device (3) in which the processed material is dried and simultaneously crystallized at elevated temperature, and, if desired, is also comminuted. A main-processing device (4) is connected to this pre-processing device (3), in which main-processing device the supplied PET-material is dried, crystallized and heated to a temperature that is higher as the temperature within the pre-treatment device.

(Fig. 1)